

Listing of Claims

This Listing of Claims shall replace all prior versions and listings of claims in the application.

1. (Currently Amended) An ion exchange media comprising ~~at least one flow path, said flow path comprising a plurality of alternating cation exchange zones and anion exchange zones, and said flow path being within a substantially nonporous resin transport framework, wherein said flow path does not contact a membrane~~ said framework comprising a cation resin side and an anion resin side, wherein said sides are opposite each other and meet at least two interfaces: said cation resin side and said anion resin side defining at least one flow path.
2. (Currently Amended) The ion exchange media of claim 1, ~~said cation exchange zones comprising wherein cation resin and said anion exchange zones comprising anion resin are contained within the flow path, each of said cation exchange zones and said anion exchange zones being in contact with said transport framework.~~
3. (Cancelled)
4. (Currently Amended) The ion exchange media of claim 3 2, wherein the resin comprising the resin transport framework and the resin within the flow path may be regenerated resin, exhausted resin, or a combination of the two.
5. (Cancelled)
6. (Currently Amended) The ion exchange media of claim 3 2, wherein the average particle size of the resin comprising the resin transport framework is smaller than the average particle size of the resin within the flow path.
7. (Currently Amended) The ion exchange media of claim 3 2, further comprising ~~at least one of~~ an anion membrane and a cation membrane, wherein said cation membrane

~~surrounds and~~ is in contact with the cation resin side of the framework and said anion membrane ~~surrounds and~~ is in contact with the anion membrane resin side of the framework.

8. (Original) The ion exchange media of claim 7, wherein said anion membrane is in continuous contact with said anion resin side, and wherein said cation membrane is in continuous contact with said cation resin side.

9. (Cancelled)

10. (Currently Amended) The ion exchange media of claim 1, wherein said resin transport framework prevents ~~substantially all~~ movement of water through said resin transport framework outside the boundary of the flow path when said resin transport framework is in the dilute chamber of an electrodeionization apparatus.

11. (Currently Amended) The ion exchange media of claim 4 2, wherein said resin transport framework is comprised of a binding agent and said flow path is comprised of a binding agent, and wherein the concentration of said binding agent in said resin transport framework is greater than the concentration of said binding agent in said flow path.

12. (Previously Presented) The ion exchange media of claim 11, wherein the respective binding agents may be the same binding agent, different binding agent, or a mixture of the same binding agent and different binding agent.

13. (Currently Amended) The ion exchange media of claim 3 11, wherein said resin transport framework is comprised of a first binding agent with a first porosity, wherein said flow path is comprised of a binding agent with a second porosity, and wherein said second porosity is greater than said first porosity.

14. (Currently Amended) An ion exchange media comprising a ~~substantially~~ nonporous resin transport framework comprised of an anion resin side and a cation resin side that meet at at

least one interface, said anion resin side and said cation resin side defining at least one flow path,
said flow path further comprising a plurality of flow paths extending longitudinally along the
interface along the entire length of the resin transport framework, said flow paths comprising
alternating areas of cation resin and anion resin in contact with said nonporous resin transport
framework.

15. (Cancelled)

16. (Cancelled)

17. (Currently Amended) A method for limiting water splitting to resin-resin bipolar
interfaces during electrodeionization of water, comprising limiting flow of water in a dilute
chamber between an anion membrane and a cation membrane to a flow path, said flow path
comprising alternating cation resin zones and anion resin zones contained within a substantially
nonporous resin transport framework ~~comprised of~~ comprising an anion resin side and a cation
resin side, wherein ~~contact of resin with a resin is limited to said resin transport framework the~~
anion resin side is interposed between the resin zones and the anion membrane and wherein the
cation resin side is interposed between the resin zones and the cation membrane.

18. (Previously Presented) The ion exchange media of claim 1, wherein said
substantially nonporous resin framework surrounds said flow path.

19. (Previously Presented) The ion exchange media of claim 1, wherein said
substantially nonporous resin transport framework does not come within the flow path.